



003692.P036

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Balakrishnan et al.

Serial No. 09/080,774

Filed: May 18, 1998

For: OFFLINE CONVERTER WITH
SOFTSTART AND FREQUENCY
JITTER

)
)
) Examiner: J. Zweizig
) Art Unit: 2816
)
)
)

Patent

#10/a
3/22/00
V. Varnall

Box Non-fee Amendment
Assistant Commissioner for Patents
Washington, DC 20231

AMENDMENT AND RESPONSE

Sir:

Responsive to the Office Action mailed December 13, 1999, the Applicants request the Examiner to enter the following amendments and to consider the following remarks.

IN THE DRAWINGS

The Applicants submit that reference numeral --405-- was inadvertently labeled as "400" in Figure 5. In addition, the Applicants submit that reference numeral --400-- was inadvertently omitted from Figure 6. Accordingly, the Applicants submit proposed drawing corrections in the form of red-mark originals of Figures 5 and 6. The Applicants request the Examiner to approve the drawings. The Applicants will submit formal corrections for Figures 5 and 6,

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including any additional changes in response to form PTO-948, when the application is allowed by Examiner.

IN THE SPECIFICATION

On page 5, line 9, please replace "25" with --15--.

On page 16, line 8, please replace "input switch 435" with --input of switch 435--.

On page 18, line 5, please replace "signal 400" with --signal 405--.

On page 18, line 23, please replace "DC voltage 740" with --DC voltage 725--.

On page 20, line 19, please replace "for the AC" with --of the AC--.

IN THE CLAIMS

Please cancel claim 37 without prejudice.

Please amend claims 4, 9, 29, 31 and 35 as follows:

4. (Amended) The pulse width modulated switch of claim 1 further comprising a soft start circuit that provides a signal instructing said drive circuit to discontinue said drive signal when [a]said magnitude of said oscillation signal is greater than a magnitude of said frequency variation signal.

9. (Amended) The pulse width modulated switch of claim 1 further comprising;

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a rectifier comprising a rectifier input and a rectifier output, said rectifier input receiving an AC mains signal and said rectifier output providing a rectified signal;
a power supply capacitor that receives said rectified signal and provides a substantially DC signal;

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a first winding comprising a first terminal and a second terminal, said first winding receiving said substantially DC signal, said second terminal of said first winding coupled to said first terminal of said [pulse width modulated] switch; and

a second winding magnetically coupled to said first winding[, said first winding capable of being coupled to a load].

11. 29. (Amended) A regulation circuit comprising:

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a first terminal;

a second terminal;

a feedback terminal coupled to disable the regulation circuit;

a switch comprising a control input, said switch allowing a signal to be transmitted between said first terminal and said second terminal according to a drive signal provided at said control input; [and]

a frequency variation circuit that provides a frequency variation signal;

an oscillator that provides an oscillation signal having a frequency range, said frequency of said oscillation signal varying within said frequency range according to said frequency variation signal, said oscillator further providing a maximum duty cycle signal comprising a first state and a second state; and

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a drive circuit that provides said drive signal [for a maximum time period of a time duration cycle;] when said maximum duty cycle signal is in said first state and said regulation circuit is not disabled.

[wherein said time duration of said cycle varies according to said frequency variation signal.]

A4 B 31. (Amended) The regulation circuit of claim ~~29~~ ¹¹ further comprising a soft start circuit that provides a signal instructing said drive circuit to discontinue said drive signal according to a magnitude of said frequency variation signal.

A5 17 35. (Amended) The regulation circuit of claim ~~29~~ ¹¹ further comprising;
a rectifier comprising a rectifier input and a rectifier output, said rectifier input receiving an AC mains signal and said rectifier output providing a rectified signal;
a power supply capacitor that receives said rectified signal and provides a substantially DC signal;
a first winding comprising a first terminal and a second terminal, said first winding receiving said substantially DC signal, said second terminal of said first winding coupled to said first terminal of said [regulation circuit] switch; and
a second winding magnetically coupled to said first winding[, said first winding capable of being coupled to a load].

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REMARKS

Claims pending in the instant application are numbered 1-10 and 29-37. The Applicants note with appreciation that claims 1-3, 7, 8 and 10 are allowed. Claims 4-6, 9 and 29-37 presently stand rejected. Claim 37 has been canceled without prejudice. Claims 4, 9, 29, 31 and 35 have been amended. The Applicants respectfully request reconsideration of the present application in view of the amendments and the following remarks.

Revocation of Previous Powers Filed By Applicants

The Applicants respectfully wish to remind the Examiner that a Revocation of Previous Powers was filed by the Applicants on May 14, 1999. For the Examiner's reference: (1) a photocopy of the Revocation of Previous Powers as filed by the Applicants and (2) a photocopy of a postcard received from the US Patent and Trademark Office evidencing receipt of the Revocation of Previous Powers is attached herewith. It is noted that at least the last two communications concerning the instant application have been incorrectly mailed by the US Patent and Trademark Office to the Applicants' former representatives instead of the Applicants' current representatives. Accordingly, the Applicants kindly wish to repeat their request that all future correspondence be mailed to Blakely Sokoloff Taylor and Zafman, LLP at the address listed in the Revocation of Previous Powers filed May 14, 1999.

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Specification and Drawing Amendments

Upon further review of the present specification and drawings, the Applicants noted several minor typographical errors. The specification and drawings have been amended to correct these deficiencies.

35 USC § 112 Rejections

In the December 13, 1999 Office Action, claims 4-6, 9 and 29-37 were rejected under 35 USC § 112, second paragraph. The claims have been amended as suggested by the Office Action and the claim language identified as not being understood in the Office Action has been amended. Accordingly, the instant section 112 rejections are now moot.

35 USC § 102 Rejections

In the December 13, 1999 Office Action, claims 29, 35 and 37 are rejected under 35 USC § 102(b) as being anticipated by Applicants' Prior Art Figure 1.

Claim 29 as presently amended now expressly recites a regulation circuit that includes an oscillator that provides a maximum duty cycle signal and an oscillation signal having frequency range that is varied according to a frequency variation signal. The Applicants' Prior Art Figure 1 fails to disclose, teach or suggest such limitations. Accordingly, the Applicants respectfully submit that the instant section 102 rejection has been overcome.

35 USC § 103 Rejection

In the December 13, 1999 Office Action, claim 34 is rejected under 35 USC § 103(a) as being unpatentable over Applicants' Prior Art Figure 1.

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Claims 34 depends on claim 29 and therefore distinguishes for at least the same reason as independent claim 29 in addition to adding further limitations of its own. Accordingly, the Applicants respectfully submit that the instant section 103 rejection has been overcome.

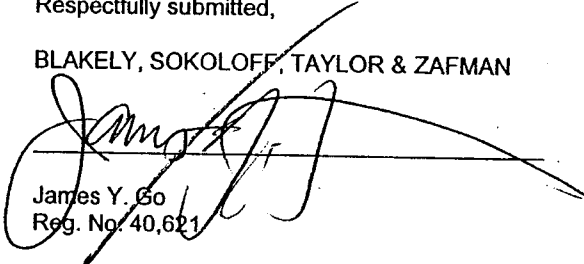
Charge Deposit Account

Please charge our Deposit Account No. 02-2666 for any additional fee due in this matter.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN

Date: 3-10-00


James Y. Go
Reg. No. 40,621

FIRST CLASS CERTIFICATE OF MAILING

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on March 10, 2000
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Melanie Besecker
Name of Person Mailing Correspondence
Melanie Besecker 3-10-00
Signature Date

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Art Unit: 2816

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PATENT

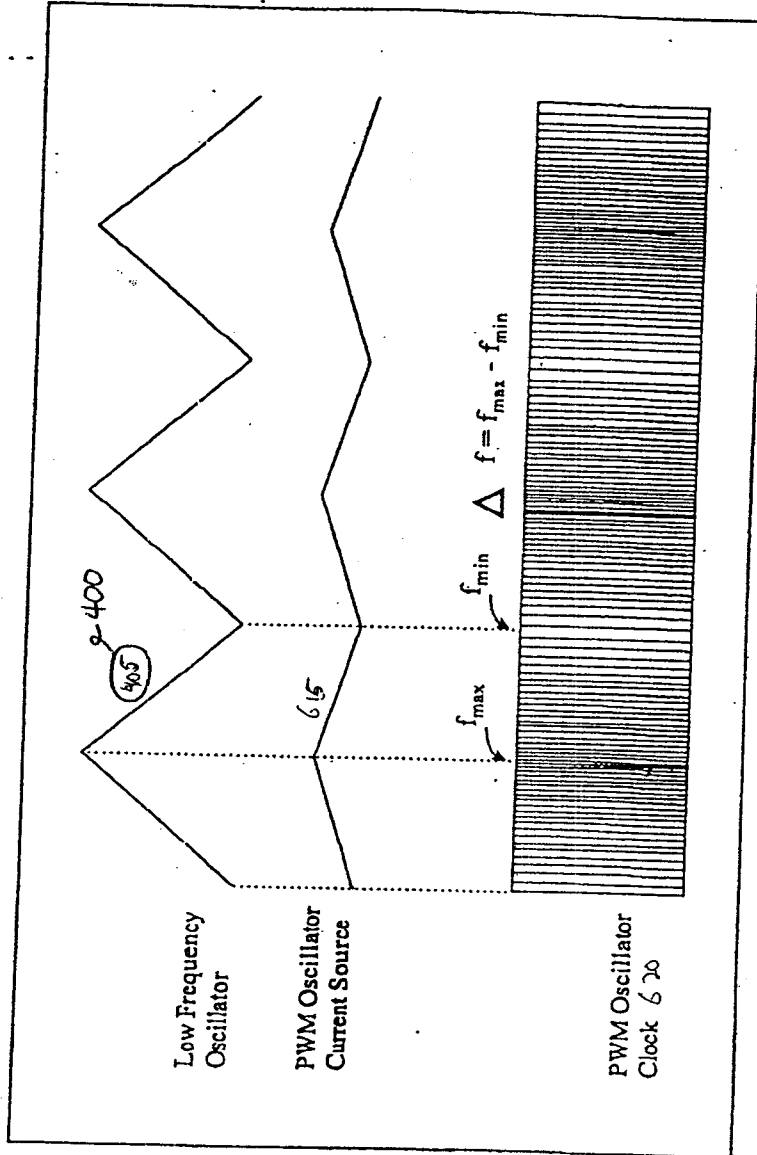
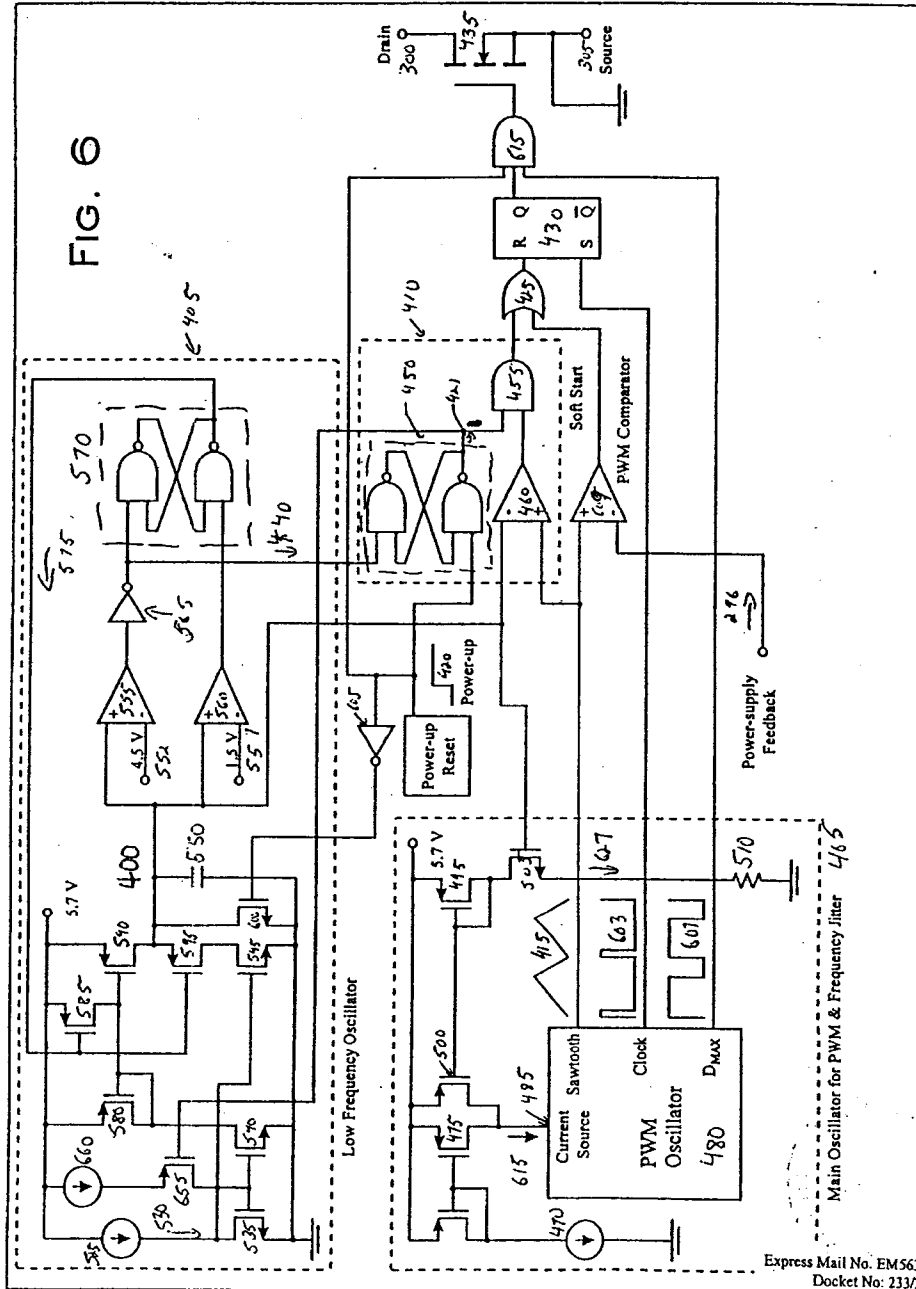


FIG. 5

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4/6/00

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PATENT





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Serial/Patent No.: 09/080,774 Filing/Issue Date: May 18, 1998
 Client: Power Integrations, Inc.
 Title: OFF-LINE CONVERTER WITH INTEGRATED SOFTSTART AND FREQUENCY JITTER
 BSTZ File No.: 003692 P036 Atty/Secty Initials: RJB:vyb
 Date Mailed: May 17, 1999 Docket Due Date: _____
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<input type="checkbox"/> Amendment/Response (____ pgs.)	<input type="checkbox"/> Express Mail No.: _____	<input type="checkbox"/> Check No. _____
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<input type="checkbox"/> Application - Utility (____ pgs., with cover and abstract)	<input type="checkbox"/> Information Disclosure Statement & PTO M40 (____ pgs.)	<input type="checkbox"/> Check No. _____
<input type="checkbox"/> Application - Rule 1.53(b) Continuation (____ pgs.)	<input type="checkbox"/> Issue Fee Transmittal	Amt: _____
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<input type="checkbox"/> Application - PCT (____ pgs.)	<input checked="" type="checkbox"/> Power of Attorney (<u>3</u> pgs.) (and Revocation)	
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<input type="checkbox"/> Disclosure Data & Orig. & Copy of Invention	<input type="checkbox"/> Transmittal Letter, in duplicate	
<input type="checkbox"/> Drawings: _____ # of sheets includes _____	<input type="checkbox"/> Fee Transmittal, in duplicate	
<input type="checkbox"/> Other: _____		

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Attorney's Docket No.: 003692.P036

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

BALAKRISHNAN, ET AL.

Application Number: 09/080,774

Filed: May 18, 1998

For: OFF-LINE CONVERTER WITH
INTEGRATED SOFTSTART AND
FREQUENCY JITTER

Examiner: Not Yet Assigned

Group Art Unit: 2816

Assistant Commissioner for Patents
Washington, D.C. 20231

**POWER OF ATTORNEY BY ASSIGNEE
AND REVOCATION OF PREVIOUS POWERS**

Power Integrations, Inc. ("assignee"), a California corporation having a place of business at 477 N. Mathilda Avenue, Sunnyvale, California, 94086, certifies that to the best of assignee's knowledge and belief it is the assignee of the entire right, title, and interest in and to the above-referenced patent application and represents that the undersigned is a representative authorized and empowered to sign on behalf of the assignee.

Assignee has reviewed the assignment document that evidences the placement of title in the assignee and upon information and belief that assignment documents were recorded in the U.S. Patent and Trademark Office on May 18, 1998, at reel 9195, frame 0745.

Pursuant to 37 C.F.R. §§ 1.36 and 3.71, the assignee hereby revokes all powers of attorney previously given and appoints Farzad E. Amini, Reg. No. P42,261; Aloysius T. C. AuYeung, Reg. No. 35,432; Amy M. Armstrong, Reg. No. 42,265; William Thomas Babbitt, Reg. No. 39,591; Carol F. Barry, Reg. No. 41,600; Jordan Michael Becker, Reg. No. 39,602; Bradley J. Bereznek, Reg. No. 33,474; Michael A. Bernadieu, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; Gregory D. Caldwell, Reg. No. 39,926; Kent M. Chen, Reg. No. 39,630; Yong S. Choi, Reg. No. P43,324; Thomas M. Coester, Reg. No. 39,637; Michael Anthony DeSanctis, Reg. No. 39,957; Daniel M. De Vos, Reg. No. 37,813; Robert Andrew Diehl, Reg. No. 40,992; Tarek N. Fahmi, Reg. No. 41,402; James Y. Go, Reg. No. 40,621; Dinu Gruia, Reg. No. P42,996; David R.

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Halvorson, Reg. No. 33,395; Thomas A. Hassing, Reg. No. 36,159; Phuong-Quan Hoang, Reg. No. 41,839; Willmore F. Holbrow III, Reg. No. P41,845; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Dag H. Johansen, Reg. No. 36,172; William W. Kidd, Reg. No. 31,772; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, under 37 C.F.R. § 10.9(b); Paul A. Mendonsa, Reg. No. 42,879; Darren J. Milliken, Reg. 42,004; Thinh V. Nguyen, Reg. No. 42,034; Kimberley G. Nobles, Reg. No. 38,255; Babak Redjaian, Reg. No. 42,096; James H. Salter, Reg. No. 35,668; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Anand Sethuraman, Reg. No. P43,351; Charles E. Shemwell, Reg. No. 40,171; Maria McCormack Sobrino, Reg. No. 31,639; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Vincent P. Tassinari, Reg. No. 42,179; Edwin H. Taylor, Reg. No. 25,129; George G. C. Tseng, Reg. No. 41,355; Lester J. Vincent, Reg. No. 31,460; John Patrick Ward, Reg. No. 40,216; Stephen Warhola, Reg. No. 43,237; Charles T. J. Weigell, Reg. No. 43,398; Ben J. Yorks, Reg. No. 33,609; and Norman Zafman, Reg. No. 26,250; my attorneys, and James A. Henry, Reg. No. 41,064; Daniel E. Ovanezian, Reg. No. 41,236; Glenn E. Von Tersch, Reg. No. 41,364; and Chad R. Walsh, Reg. No. 43,235; my patent agents, of BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800, and James R. Thein, Reg. No. 31,710, my patent attorney; with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

Pursuant to 37 C.F.R. § 3.71, the assignee hereby states that prosecution of the above-referenced patent application is to be conducted to the exclusion of the inventor(s).

Send all future correspondence to Bradley J. Bereznek, Esq., Reg. No. 33,474, Blakely, Sokoloff, Taylor, & Zafman LLP, 12400 Wilshire Boulevard, Seventh Floor, Los Angeles, California 90025, and direct all telephone calls to the same at (408) 720-8598.

Assignee of Interest: POWER INTEGRATIONS, INC.
(Type or Print)

Dated: 5-14-99 By: 
Name: Clifford J. Walker
(Type or Print)
Title: Vice President of Corporate Development
(Type or Print)

Address of Assignee of Interest:
477 N. Mathilda Avenue
Sunnyvale, CA 94086
USA

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 5/17/99 By *Bradley J. Bereznak*
Name: Bradley J. Bereznak
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(408) 720-8598

FIRST CLASS CERTIFICATE OF MAILING
(37 C.F.R. § 1.8(a))

I hereby certify that the foregoing Power of Attorney is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231 on _____

May 17, 1999

Vivian Y. Buijten

Name of Person Mailing Correspondence

Vivian Y. Buijten
Signature

5/17/99
Date

BLAKELY SOKOLOFF TAYLOR & ZAFMAN
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Incorporated in the State of California
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